CATALOGUE
(2011-2012)
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ALP Technology (T&M) Ltd
Http://www.alptest.com
ADD: No.263, south Tai bai Road, Xi'an, China
TEL: +86-29-81777537 FAX: +86-29-81777537

Head Office

Office

Test Center

Clinical laboratory

ALP technology **Founded in 1998, with 12 years in the test and measurement industry, we have grown to become the professional manufacturer and developer of test and measurement products in China.**

With a strong focus on high quality, economic measurement solutions for the educational and industrial manufacturing markets, ALP technology **Instrument has developed a solid brand image with a reputation for reliability, integrity and innovation. Our products are widely used in different fields like Manufacture, Industry control, Broadcast, Network communication and Scientific research and Education etc.**

The ALP technology **reputation has been built upon the philosophy of integrity, quality, creativity and the accumulation of years of experience. Focusing on the improvement of R&D, manufacturing and marketing competitiveness,** ALP technology **will continue to be one of the most reliable, trusted brands creating the highest value for customers.**

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ALP1000C/CA/CM/CE/CF SERIES

Dual Channel

- Dual channel - channel bandwidth: 25MHz ~ 300MHz
- The volume exquisite and it is convenient for carrying
- Use Colored TFT LCD, the waveform display is clearer and stable
- The real time sampling rate is 500MSa/s ~ 2GSa/s
- Memory depth is 4K ~ 2M
- Trigger Modes: Edge, Pulse, Video, Slope, Alternative and Delay trigger modes
- Front and Back USB Host/Device, GPIB
- Unique Digital Filter function and Waveform recorder function
- Waveform recorder function
- Pass/Fail function
- Thirty two parameters Auto measure function
- Cursor measure covers Manual mode, Track mode and Auto mode
- Channel waveform and it's FFT waveform display on split screen
- Pop-up Menu display pattern is more convenient for users using it
- Multiple Language User Interface
- Support multilingual online help

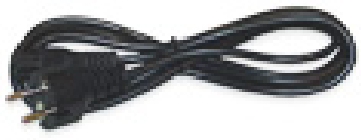
MODEL	Bandwidth	Sampling Rate	Memory Depth	Recording Length
ALP1022C	25MHz	500MSa/s	4K/Ch	6Mpts
ALP 1042C	40MHz	500MSa/s	4K/Ch	6Mpts
ALP 1062C	60MHz	500MSa/s	4K/Ch	6Mpts

ALP 1102C	100MHz	500MSa/s	4K/Ch	6Mpts
ALP 1202C	200MHz	500MSa/s	4K/Ch	6Mpts
ALP 1102CA	100MHz	1GSa/s	40K/Ch	6Mpts
ALP 1202CA	200MHz	1GSa/s	5K/Ch	6Mpts
ALP 1062CM	60MHz	1GSa/s	2M/Ch	6Mpts
ALP 1102CM	100MHz	1GSa/s	2M/Ch	6Mpts
ALP 1152CM	150MHz	1GSa/s	2M/Ch	6Mpts
ALP 1062CE	60MHz	2GSa/s	18K/Ch	8Mpts
ALP 1102CE	100MHz	2GSa/s	18K/Ch	8Mpts
ALP 1202CE	200MHz	2GSa/s	18K/Ch	8Mpts
ALP 1302CE	300MHz	2GSa/s	18K/Ch	8Mpts

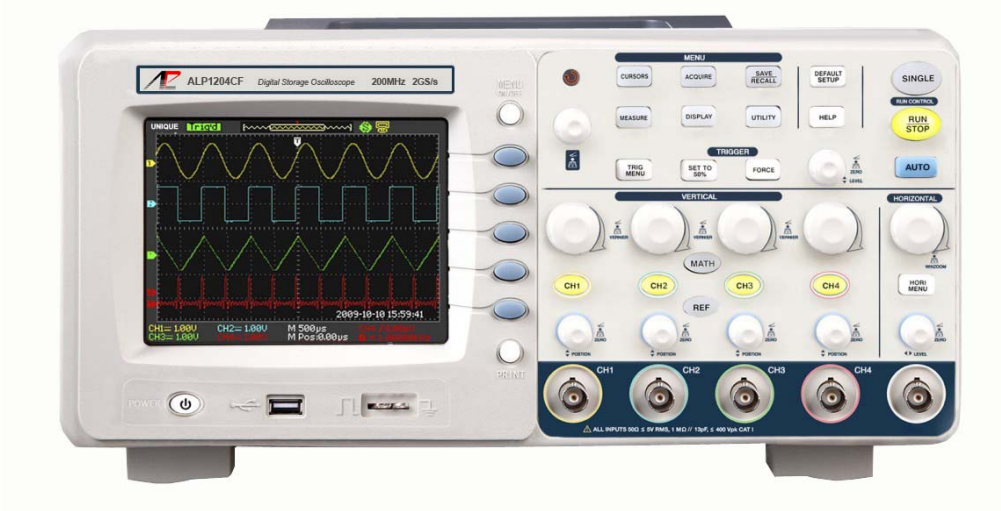
Common Specifications	
Display	12 divides full screen display
Channels	2
Vertical Sensitivity	2mv-5v/div(1-2-5 Sequence）
Vertical Resolution	8bit
Input coupling	DC, AC, GND
Input Max voltage	400V（Vpp）
Trigger Types	Edge, Pulse, Video, Slope, Alternative, Delay
Trigger Modes	Auto, Normal, Single
Trigger Source	CH1, CH2, Ext, Ext/5, AC Line
Save/Recall	Provide two groups reference waveforms, twenty groups capture waveforms and twenty groups setups internal save/recall function and USB flash drive Save/Recall function
Auto Measure Types	Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Mean, Vrms, Crms, ROVShoot, FOVShoot, RPREShoot, FPREShoot, Freq, Period, Rise time, Fall Time, +Width, -Width, +Duty, - Duty, BWid, Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF
Cursor measure	Manual, Track, Auto
Sample Types	Real Time, Equivalent Time

Averages	4, 16, 32, 64, 128, 256
Math	+, -, *, /, Invert
FFT	Window: Hanning, Hamming, Blackman, Rectangular Sampling Points: 1024 points
XY Mode	Phase Error: ±3 degrees Support the sampling rate : 5KSa/s～200MSa/s (in a 1-2-5 sequence)
Persist	Off, 1sec, 2sec, 5sec, Infinite
Display Model	Main, Window, Window Zoom, Roll, X-Y
Menu Display	2Sec, 5Sec, 10Sec, 20Sec, Infinite
Skin	Classical, Modern, Tradition, Succinct
Display Language	Simplified Chinese, Traditional Chinese, English, Arabic, French, German, Russian, Spanish, Portuguese, Japanese, Korean
Power Source Voltage	100-240VAC、47HZ-440HZ、50VA Max
Size and Weight	305mm x 154mm x133mm, about2.3kg
USB Host	Support USB flash drive storage
USB Device	Support PictBridge compatible printers and PC Remote control RS-232
ACCESSORIES	
(1:1, 10:1) Probe x 2, Easy Scope Computer Software System, Power Cord, USB Cable, User Manual	
OPTIONALS	
GPIB Communication Module, Serial Interface Communication Module, Pass/Fail Interface Module	

Accessories



Four Channel



- **Independent 4-channel, the maximum bandwidth of 300 megabytes, performance excellence and exemplary achievement.**
- **Using ALP patented technology to the temperature changes with the board auto-calibration.**
- **ALP1000CF series is the highest-made four-channel oscilloscope bandwidth of the oscilloscope.**
- **Service: since the host free of charge from the date of purchase warranty for five years, annex year warranty. In the warranty period, if the product quality problems caused by their own hardware or software failure, ALP or ALP after-sales service centers will be designated the maintenance point of failure to repair for free products. The use of improper or man-made damage, break something, broke and other non-quality of the product itself is not the damage caused by free maintenance range.**

Model	ALP1304CF	ALP1204CF	ALP1104CF	ALP1064CF
Bandwidth	300MHz	200MHz	100MHz	60MHz
Channels	4 channels + 1 exit trigger channel			
Real time sample rate	2G Sa/s per Single channel 1G Sa/s per dual channels			
Equivalent Sample Rate	50G Sa/s			
Memory depth	Single channel: 24 kpts, Dual channel: 12 kpts			
Recording Length	6Mpts			
Rise Time	＜1.2ns	＜1.8ns	＜3.5ns	＜5.8ns

Impedance	1MΩ II 13pF, 50Ω			
Time base range	1.0ns/div-50s/div	2.5ns/div-50s/div	2.5ns/div-50s/div	5.0ns/div-50s/div
	Roll: 100ms-50s/div			
Vertical Sensitivity	2mv – 5v/div (1-2-5)			
Vertical Resolution	8 bit			
Trigger Source	CH1, CH2, CH3, CH4, Ext, Ext/5, AC Line			
Trigger	Edge, Pulse, Video, Slope, Alternate			
Math	+, -, *, FFT			
Digital Filter	High channel, low channel, add Resistance, add channel			
Maximum input voltage	±400V Pk—Pk CAT 1			
Internal storage	4 Group Reference Waveform, 20 group settings, 20 waveforms			
External Storage	Bitmap memory, CSV memory, Waveform memory, setting memory			
Language	Simplified han Chinese, Traditional Han Chinese, English, German, Franch, Japanese, South Korea Language, Russian, Arabic, Spanish, Portuguese, Italian			
Communication port	Dual USB Host, USB Device, LAN, Pass/Fail ports			
Display	5.7 inch 64k TFT-LCD screen			
Size and weight	(L*W*H) 336*152*118mm 4.3Kg			

Accessories

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ALP ANALOG OSCILLOSCOPE

Features

ALP212D DC-20MHz
ALP214D DC-40MHz
ALP216D DC-60MHz

- **Dual channels/dual traces, X-Y mode**
- **6" display, high brightness oscilloscope tube**
- **High sensitivity triggering, up to 1mV/division clearer display than ordinary oscilloscope**
- **TV synchronous separation circuit to observe stable TV signal**
- **Triggering mode: AUTO/NORM/AV-V/AV-H**
- **Vertical: ALT/CHOP/ADD**
- **X-x10/Y-x5**
- **Polarity reversal**
- **CH1 Sync output**
- **Power supply: AC 220V ADN (110V optional)**

Specifications

- CRT: 6 inches rectangular screen with internal graticule, 8*10div (1 div=1cm).
- Vertical deflection
- Display mode: CH1, CH2, CH3, ADD, ALT, and CHOP
- Deflection factor: 5mV/div to 5V/div±3 %,(1mV/div to 1V/div±5% at*5), 10steps.
- Rise time: ≤17.5ns
- Max. Input voltage: 40v (DC+AC peak value) when≤1KHz
- Input coupling: AC, DC, Grounding
- Polarity selection :±(CH2 only)

Horizontal deflection

- Display mode: 1, 10, X-Y
- Time Base: 0.2us/div to 0.5s/div, 20 range
- Sweep expansion width:*10
- Accuracy: ±3%

Triggering System

- Triggering mode: NORM, AUTO, TV-V, TV-H
- Triggering source: CH1, CH2, LINE, EXT
- Sensitivity and Frequency: Auto: 20Hz---100MHz (VERT) Norm: 0.5div int, 0.8Vp—p EXT
  0.5div INT, 0.5vp---PEXT TV-H: At least 1 div or 1V p-p,
- Input impedance: 1MΩ

X-Y Operation

- X-Y Phase difference: ≤3o, DC--50 KHz

Others

- Calibration waveform: Frequency: 1KH 20%, Voltage: 0.5v1%
- Power supply: AC 220V/110V±10%, 50/60Hz
- Dimensions: 370*310*130mm

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ALP FUNCTION GENERATOR

Main Features

- Frequency of the mode: 0.1Hz---2MHz/ 5MHz/ 10MHz
- Output waveform: Sine, Triangle, Square, ±Ramp, ±Pulse
- TTL/CMOS and OUTPUT synchronous output
- Less than 1% distortion at 10Hz-- 100 KHz
- Less than 0.5dB frequency response at 0.1Hz--- 100 KHz
- 1Hz---30MHz frequency counter

Frequency

- ALP1641: 0.1Hz～2MHz,
- ALP1642: 0.1Hz～5MHz,
- ALP1643: 0.1Hz～10MHz

Specifications	
Output waveform	Sine, Triangle, Square, Positive and Negative Pulse, saw tooth wave
Output Impedance	50Ω±10%
Amplitude	Not less than 20V p--p (open circuit)
DC Voltage	0--±10V continuously adjustable
Symmetry Range	90:10--10:90
Rising Edge of Square	ALP-1641: less than 100ns, ALP-1642: less than 50ns, ALP1643: less than 50ns
Sine Characteristic	
Distortion	Less than 1% at 10Hz--10 KHz
Frequency Response	0.1Hz--100MHz: Less than ±0.5dB 100KHz--2MHz (ALP-1641): Less than±1dB
TTL/COMS Output	
Level	TTL low level less than 0.4V in pulse wave, high level less than 3.5V,CMOS low less tan 0.5V in pulse wave, high level 5V--14V ontinuously variable.
Rising Time	less than 100ns
VCF Input	
Output Voltage	-5V---0V±10
Max.volt-cotrolled	1000:1
Input Signal	DC-1KHz
Frequency counter	
Measuring Range	1Hz--10MHz≥10Vp-p
Input Impedance	Not less than1MΩ/20F
Sensitivity	100mVrms
Max.Input	150V (AC+DC)
Input Attenuation	20dB
Accuracy	Less than 0.0003%±1digit
Line power	220V/110V±10%, 50Hz/60Hz
Dimension	270*225*90mm
Weight	2.5kg

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ALP1000 SERIES

TRUE ARBITRARY WAVEFORM FUNCTION GENERATOR

Main Features

- Apply DDS technology, double output, adjustable phase, the highest output frequency is 50MHz.
- 125MSa/s sample rate, 14bit vertical resolution, 16Kpts wave length.
- Output 5 types of standard waveform, internally installed 48 types of waveform;
- Internally installed high precision, wide frequency counter, frequency is up to 200MHz.
- Abundant modulation function, sweep-frequency output, pulse train output.
- Standard collocation connection: USB Device, USB Host, support U Disk storage and software upgrading; GPIB and LAN port are optional.
- Can connect to SDS1000 series digital oscilloscope perfectly, and support remote command control.

Apply

- Analog Sensor
- Real Environmental Signals
- Circuit Function Test
- IC Test
- Education

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Technical parameters

Model	ALP1005	ALP1010	ALP1020	ALP1025	ALP1050
Highest frequency output	5MHz	10MHz	20MHz	25MHz	50MHz
Output channels	2				
Sample rate	125 MSa/s				
Wave length	16 Kpts (channel one can choose 512Kpts)				
Frequency resolution	1 μHz				
Vertical resolution	14 Bit				
Waveform	Sine wave， square wave ， triangular wave ， pulse wave ，white noise，48 types of function waveform				
Sine wave	1μHz ~ 5MHz	1μHz ~ 10MHz	1μHz ~ 20MHz	1μHz ~ 25MHz	1μHz ~ 50MHz
Square wave	1μHz ~ 5MHz	1μHz ~ 10MHz	1μHz ~ 20MHz	1μHz ~ 25MHz	1μHz ~ 25MHz
Pulse	1μHz ~ 5MHz	1μHz ~ 10MHz	1μHz ~ 10MHz	1μHz ~ 10MHz	1μHz ~ 10MHz
Ramp	1μHz ~ 300KHz	1μHz ~ 300KHz	1μHz ~ 300KHz	1μHz ~ 300KHz	1μHz ~ 300KHz
Gaussian white noise	5MHz bandwidth （-3dB）	10MHz bandwidth （-3dB）	20MHz bandwidth （-3dB）	25MHz bandwidth （-3dB）	50MHz bandwidth （-3dB）
Wave	1μHz ~ 5MHz	1μHz ~ 10MHz	1μHz ~ 10MHz	1μHz ~ 10MHz	1μHz ~ 10MHz
Modulation function	AM，FM，PM，ASK，FSK，PWM etc.				
Other functions	Frequency counter: frequency is up to200MHz				
Standard configuration	USB Host & Device				
Optional port	GPIB(IEEE-488)，LAN				
Product classify	function/waveform generator				
Size	Width × height × depth ＝229mm × 105mm × 281mm				

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APR ANALOG POWER SUPPLY

APR-3002:0-30V/0-2A

APR-3003:0-30V/0-3A

APR-3005:0-30V/0-5A

Specifications

1. Rated working condition and dimensions

- Power supply voltage: 220V±10% 50/60Hz
- Working condition: Temperature: -10^{0}C to 40^{0}C Relative humidity: <90%
- Storage condition: Temperature: -20^{0}C to 80^{0}C Relative humidity: <80%

2. Stabilized Voltage working position

- The output voltage is between 0 and nominal value continuously adjustable
- Voltage stability Power stability :< 0.01%+2mV

  Load stability :< 0.01%+2mV (Max. current≦3A)

  Load stability :< 0.01%+5mV (Max. current>3A)
- Recovery time :< 100μS (5HZ-1MHz) (Max. current≦3A)

(4) Ripple & noise :< 0.5mVrms (5Hz-1MHz) (Max. current >3A)

(5) Temperature coefficient < 300PPM/^{0}C

3. Stabilized current working position

(1) The output current is between 0 and nominal value continuously adjustable

(2) Current stability Power stability<0.2%+2mA Load stability :< 0.2%+2mA

(3) Ripple & noise :< 0.2mArms

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REGULATED DC POWER SUPPLY

General specifications

- High stability, Built-in EMI filters.
- Protective function: over voltage, overload, over temperature, current limited protection.
- Input Voltage: 220VAC±10%
- Input voltage frequency: 47 to 63Hz.
- Surge Current: cool machine power 30A/115V, 60A/230V
- Input Leakage Current: <0.7mA/230V
- Pressure test Input to output: 1.5KVAC/1min
  Input to outer shell: 1.5KVAC/1min
  Output to outer shell: 500VAC/1min
- Display mode and accuracy: LED digital display, ±1%, ±1% digit.
- Ripple and noise: ≤1% (rms)
- Voltage stability: ≤0.1+2mV
- Current stability: ≤0.8%
- Load stability: ≤0.1+2m V
- Machine frequency: ≥87%
- Working temperature and humidity: -100C to +40 0C 20% to 90%
- Storage temperature and humidity: -200C to 800C 20% to 80%
- Cooling method: Intelligent fan

Models

Model	Output voltage (Adjustable)	Output current (Adjustable)
ALP3010	0~30V	0~10A
ALP3020	0~30V	0~20A
ALP3030	0~30V	0~30A
ALP3050	0~30V	0~50A
ALP3060	0~30V	0~60A
ALP3080	0~30V	0~80A
ALP30100	0~30V	0~100A
ALP6410	0~64V	0~10A
ALP6420	0~64V	0~20A
ALP6430	0~64V	0~30A
ALP6450	0~64V	0~50A
ALP6480	0~64V	0~80A
ALP64100	0~64V	0~100A

Note: we can produce the non-standard power supply according to your specifications.

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ALP-3303 SERIES DC POWER SUPPLY

The ALP-3303 series inherits the superior technology and high quality which ALP has established through its long history of power supply design and manufacturing. The ALP-3303 series provides 195W output power, three isolated output channels, high resolution output (ALP-3303S), a digital control panel,5 sets of setup memory, USB remote control, smart cooling fan control, high reliability, and a compact size. The ALP-3303 series establishes a new benchmark for economical programmable linear D.C. power supplies. The most remarkable feature of this series is the minimum 1mV / 1mA resolution of the ALP-3303S. The high resolution of the ALP-3303S is ideal for any applications that need accurate control of power sources.

Feature

- **Three independent output: (30V/3A×2),(2.5V/3.3V/5V） / 3A×1(fixed)**
- **4 LED display: 3 digits voltage, 3 digits current (ALP-3303, ALP-3303C, ALP-3303D)**
  5 digits voltage, 4 digits current (ALP-3303S)
- **Minimum resolution: 100mV,10Ma (ALP-3303,ALP-3303C,ALP-3303D)**
  1mV, 1mA (ALP-3303S)
- **Digital panel control(rotary encoder switch, rubber key with indicator)**
- **User-friendly operation, coarse/fine volume control**
- **4 sets Save/Recall**
- **Key-Lock**
- **Warning Buzzer**
- **Output ON/OFF**
- **Tracking series and parallel mode**
- **Software calibration**
- **Smart cooling fan achieving low noise**
- **Compact design**
- **PC software & USB driver**

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	ALP-3303	ALP-3303C	ALP-3303D	ALP-3303S
OUTPUT				
Voltage	(CH1 / CH2) 0~30.0V x 2 , (CH3) 2.5V/3.3V/5.0V x 1			
Current	(CH1 / CH2) 0~3.0A x 2 , (CH3) 3.0A (fixed)			
CONSTANT VOLTAGE OPERATION				
Line Regulation	CV≤0.01% + 3mV CC≤0.2% + 3mA			
Load Regulation	CV≤0.01% + 3mV (rating current≤3A)			
	CC≤0.2% + 3mA(rating current≤3A)			
	CV≤0.02% + 5mV (rating current＞3A)			
	CC≤0.2% + 3mA(rating current＞3A)			
Ripple & Noise	CV≤1.0mVrms(rating current≤3A)			
	CC≤3mArms(rating current≤3A)			
	CV≤2.0mVrms(rating current＞3A）			
	CC≤6mArms(rating current＞3A)			
Recovery Time	≤100μS (50% load change, minimum load 0.5A)			
Temp. Coefficient	≤300ppm/°C			
Output Range	0 to rating voltage continuously adjustable			
CONSTANT CURRENT OPERATION				
Line Regulation	≤0.2% + 3mA			
Load Regulation	≤0.2% + 3mA			
Ripple Current	≤3mArms			
Output Range	0 to rating current continuously adjustable			
TRACKING OPERATION				
Parallel Regulation	Line Regulation≤0.01% + 3mV			
	Load Regulation≤0.01% + 3mV (rating current≤3A)			
	≤0.02% + 5mV (rating current ＞3A)			
Series Regulation	Line Regulation≤0.01% + 5mV			
	Load Regulation≤300mV			

	Tracking Error≤0.5% ± 10mV (master, no load,ALP-3303S)	
	≤0.5% ± 30mV (master, no load,ALP-3303,ALP-3303D)	
	≤0.5% ± 30mV (master, no load,ALP-3303C)	
METER		
Display	Voltage full scale: 32V, 3digits, 0.5" LED display	Voltage full scale:
	Current full scale: 3.2A, 3digits 0.5" LED display	32V, 5digits, 0.4" LED display
		Current full scale:
		3.2A, 4digits 0.4" LED display
Voltage Resolution	100mV	1mV
Current Resolution	10mA	1mA
Program Accuracy (25±5°C)	Voltage: ±(0.2% of RDG + 3 digits) (0~9.99V)	Voltage: ±(0.03% of
	Voltage: ±(0.5% of RDG +2 digits) (10~30V)	RDG +10mV) (0~30V)
	Current: ±(0.5% of RDG +2 digits) (0~3A)	Current: ±(0.3% of
		RDG + 10mA)(0~3A)
Readback Accuracy (25±5°C)	Voltage: ±(0.2% of RDG + 3 digits) (0~9.99V)	Voltage: ±(0.03% of
	Voltage: ±(0.5% of RDG +2 digits) (10~30V)	RDG +10mV) (0~30V)
	Current: ±(0.5% of RDG +2 digits) (0~3A)	Current: ±(0.3% of
		RDG + 10mA)(0~3A)
CH3 SPECIFICATION		
Output Voltage	2.5V/3.3V/5V ±8%	
Output Current	3A	
Line Regulation	≤25mV	
Load Regulation	≤25mV	
Ripple & Noise	≤2mVrms	
MEMORY SAVE/RECALL		
	4 sets of panel, include the memory status before closed	
POWER SOURCE		
	AC 110V/220V±10%, 50/60Hz	

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